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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/771,516	01/17/2001	Huang Chuang-Pan	6771			
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Huang Chuang-Pan Sec 1 NO. 52, Alley 41, Lane, An-Ho Rd.			EXAMINER			
			HUYNH, KIM NGOC			
Tainan City, 9F 3R TAIWAN			ART UNIT	PAPER NUMBER		
		•	2836			
			DATE MAILED: 12/10/2002	DATE MAILED: 12/10/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Optice Action Summary   Optice Acti		· · ·	Application No.		Applicant(s)	. \				
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Figure 1   Figure 2	' Office Action Summary					T				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensive to time may be available under the procrease of 2 CPR 1.138(a). In no event, however, may a raply be timely filled the time may be available under the procrease of 2 CPR 1.138(a). In no event, however, may a raply be timely filled the period for eaply specified above is less than hirty (20) along, as reply within the callulary minimum of hirty (20) shays will be considered strinely. If No period for eaply specified above is less than hirty (20) along, as reply within the callulary minimum of hirty (20) shays will be considered strinely. If No period for eaply specified above is less than hirty (20) along, as reply within the callulary will be callulary and the specified of the communication. If No period for eaply specified above is less than hirty (20) along, as reply within the callulary and will be considered strinely. If No period for eaply specified above is less than hirty (20) along, as reply the timely filled, may reclaim any callulary and the specified on the communication is less than hirty (20) along and the callulary and will be considered to the communication.  Status  Responsive to communication(s) filled on 17 January 2001  2a This action is FinAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) fishare pending in the application.  4) Claim(s) fishare pending in the application.  5) Claim(s) fishare rejected.  7) Claim(s) fishare rejected to expect the specified of the callulary and the callulary an										
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Entertained in them may be waitable under the provision of 3 CFR 1.136(a). In or event, however, may a reply be timely filed  Entertained in them may be waitable under the provision of 3 CFR 1.136(a). In or event, however, may a reply be timely filed  If the period for reply separation of the second of 1 CFR 1.136(a). In or event, however, may a reply be timely filed  If the period for reply separation of the second o			1	sheet with the co		ddress				
THE MAILING DATE OF THIS COMMUNICATION.  Extrasioner of time mybe available under the procisions of 3 CPR 1.13(6). In no event, however, may a reply be timely filed after SX (6) MCNT155 from the mailing date of this communication.  It NO period for reply is specified to the the mailing date of this communication.  If NO period for reply is specified or reply is specified or reply in the distribution of the communication.  Failure to reply within the set of extended period for reply will, by statute, cause the application to become ARADCONED (38 U.S.C. § 133). Any reply received by the Otto live through the mailing date of this communication, even if timely filed, may reduce any  Status  1) Responsive to communication(s) filed on 17 January 2001.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1 is/are pending in the application.  4a) Of the above claim(s) is/are allowed.  5) Claim(s) is/are rejected.  7) Claim(s) is/are allowed.  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a  accepted or b  objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. Sea 37 CFR 1.85(a).  11) The proposed drawing correction filed on is/are: a) approved b  disapproved by the Examiner.  12) The oath or declaration is objected to by the Examiner.  12) The oath or declaration is objected to by the Examiner.  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  3) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(e) (to a provisional application).  3) The translation of the foreign language provisional application has been received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (t			_							
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#### **DETAILED ACTION**

# Claim Objections

1. The claims are objected to because they include reference characters which are not enclosed within parentheses.

Reference characters corresponding to elements recited in the detailed description of the drawings and used in conjunction with the recitation of the same element or group of elements in the claims should be enclosed within parentheses so as to avoid confusion with other numbers or characters which may appear in the claims. See MPEP § 608.01(m).

# Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Lines 13 and, "said terminal" and "said first terminal" lack antecedent basis since they are not consistent with the preceding terminals "a terminal" P1 and "another terminal" P2. It is suggested term such as "first" and "second" terminals is used throughout the claims for consistency when refers to terminal P1 and P2.

How can a terminal (P2) forms "a signal dividing voltage circuit" (lines 8-9)?

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It is unclear what signals are transmitted by the other terminal (P2) to compare circuit (lines 10-11). Line 23, "the subsequent circuit" lacks antecedent basis.

Correction/clarification required.

4. The following rejections are made based on the examiner's best interpretation of the claims in light of the 35 USC 112 rejection.

### Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall-not be negatived by the manner in which the invention was made.
- 6. Claim 1 is rejected under 35 U.S.C. 103(a) as being obvious over Tsai (US 6,135,427) in view of Unoguchi et al. (US 4,449,188) or Kirchner et al. (US 4,146,775).

Tsai discloses (Figs. 10-13) a protective circuit for a humidifier having an DC input 413, a voltage stabilizer 414, a drive circuit 43 for driving an oscillator 434, a first terminal connected to a voltage divider circuit R1-R2, a second terminal (connecting to the water detecting sensor 10) for turning off the drive circuit when the water level is below a certain level (col. 4, II. 51-69).

Tsai does not disclose an amplifier accepting signals from the first and second terminal. Kirchner discloses (Fig. 3) a protective circuit for a humidifier having a first terminal connected to a voltage divider circuit 22-23, a second terminal 74 connecting to the input terminals of amplifier 27 to control the drive circuit 31. Unoguchi also

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discloses an amplifier having inputs J1 and J2 for comparing a humidity level 3 and a voltage from a divider circuit R2-R3 for controlling the output. Since utilizing amplifier to compare the values of two signals are well known in the art and as disclosed by Kirchner and Unoguchi as shown above; it would have been obvious to one having ordinary skill in the art to utilize a comparator circuit for controlling the drive circuit of Tsia depending the output signal of the water detector means since Tsia discloses that the water detector means could various types of detector devices.

#### Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cox (US 5,014,908), Mitsui et al. (US 3,989,042) and Huang (US 4,820,453) disclose various protection circuits for shutting down the drive circuit when the water level is low in a humidifier.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim Huynh whose telephone number is (703) 308-1678.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0658.

Kim Huynh

Primary Examiner

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KH

December 3, 2002